```
#Male rat paramters (Table 2 Yang et al. 2012)
#Metabolism is based on posterior values from
#MCMC analysis of the male rat in vitro data
#Male Fischer Rat

parms <-c(
BW = 0.25 ,     # Body weight
QPC = 21. ,     # Unscaled Alveolar Vent
QCC = 18. ,     # Unscaled Cardiac Output

#FRACTIONAL BLOOD FLOWS TO TISSUES
QLC = 0.183 ,   # Flow to Liver as % Cardiac Output
QFC = 0.07  ,   # Flow to Fat as % Cardiac Output
QSC = 0.278  ,   # Flow to Slow as % Cardiac Output
QKC = 0.14  ,   # Flow to Kidney as % Cardiac Output

#FRACTIONAL VOLUMES OF TISSUES
VLC = 0.0366,   # Volume Liver as % Body Weight
VLUC = 0.005 ,   # Volume Lung as % Body Weight
VFC = 0.1  ,   # Volume Fat as % Body Weight
VRC = 0.04644 ,   # Volume Rapid Perfused as % Body Weight
VSC = 0.4  ,   # Volume Slow Perfused as % Body Weight
VKC = 0.0073 ,   # Volume Kidney as % Body Weight

#PARTITION COEFFICIENTS PARENT
PL = 1.57 ,    # Liver/Blood Partition Coefficient
PLU = 1.84 ,    # Lung/Blood Partition Coefficient
PF = 16.87 ,    # Fat/Blood Partition Coefficient
PS = 0.60  ,   # Slow/Blood Partition Coefficient
PR = 2.27 ,    # Rapid/Blood Partition Coefficient
PB = 7.35 ,    # Blood/Air Partition Coefficient
PK = 2.27 ,    # Kidney/Blood Partition Coefficient

#KINETIC CONSTANTS
MW = 88.5  , # Molecular weight (g/mol)
VMAXC = 9.48  , # Scaled VMax for Oxidative Pathway:Liver
KM = 0.05  ,  # Km for Oxidative Pathway:Liver
VMAXCLU = 0.0  ,  # Scaled VMax for Oxidative Pathway:Lung
KMLU = 0.25  ,   # Km for Oxidative Pathway:Lung
KFLUC = 0.15  ,   # Pseudo-first order clearance in lung (Km
unidentifiable)
VMAXCKid = 0.02 , # Scaled VMax for Oxidative Pathway:Kidney
KMKD = 0.07  ,  # Km for Oxidative Pathway :Kidney

#DOSING INFORMATION
TSTOP = 7.0 ,
CONC = 0.0    # Initial concentration (ppm)

)
```